

Abstract

A direct current voltage converter comprises a unit (BGR) for preparing a reference voltage (Vref), a regulator(OP), a pulse width modulator (Comp, Vsw), a voltage-controlled pole-changing switch (T, D), a storage choke (L) and a smoothing 5 capacitor (C). An insulated line connects a reference potential, to which the input voltages of the regulator drop, with a ground terminal of the smoothing capacitor (C). In this way the noise signals of the direct current voltage converter are considerably reduced.